

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An apparatus for transmitting inductive energy to a battery charger assembly in proximity thereof, the battery charger assembly including a microprocessor for processing data relevant to the inductive energy, the apparatus comprising:

an inductive charging source including:

a memory for storing computer readable instructions relevant to providing inductive energy to a battery charger assembly;

a processor unit operatively coupled to the memory;

a ~~first~~ transmission element operatively coupled to the processor unit so as to provide the inductive energy to the battery charger assembly; ~~and~~

a housing for enclosing the memory and processor unit therein;

a communication device coupled to the transmission element for providing data communication to the transmission element, the transmission element being configured to provide inductive data communications over an inductive pathway to the battery charger assembly based on a polling message having a header and a payload and

~~an inductive battery charger separate but in proximity to the inductive charging source, the inductive battery charger including:~~

~~a battery pack connector capable of operatively receiving a battery pack;~~

~~a battery charger for providing energy to the battery pack connector via a communication bus, the communication bus comprising at least a first wire and a second wire, the first wire for data transfer and the second wire for transmitting a clock signal;~~

~~a second transmission element for receiving inductive energy from the first transmission element;~~

~~a power supply operatively coupled to the second transmission element, the power supply configured to output a direct current to the battery charger responsive to the inductive energy;~~

~~a connector for operatively receiving a portion of the battery pack for logical communications with the processor unit, the connector in communication with the battery pack via at least a first wire and a second wire, the first wire for data transfer and the second wire for transmitting a clock signal.~~

2. (Original) The apparatus in accordance with claim 1, in which the memory includes authentication data for authenticating the battery charger assembly for the inductive energy transmission.

3. (Original) The apparatus in accordance with claim 1, further comprising a communications device for receiving and transmitting data and the communications device being operatively coupled to the transmission element.

4. (Original) The apparatus in accordance with claim 1, further comprising an antenna and a communications device configured to receive the computer readable instructions and configured to transmit the instructions to the antenna for wireless data communications to a battery charger assembly.

5. (Original) The apparatus in accordance with claim 1, in which the processor unit is configured to receive a plurality of power parameters from the battery charger assembly.

6. (Original) The apparatus in accordance with claim 1, in which the processor unit is configured to receive a digital security certificate from a battery charger assembly.

7. (Original) The apparatus in accordance with claim 1, further comprising a plurality of transmission elements responsive to receiving a transmission from a battery charger assembly.

8. (Currently amended) An apparatus configured for receiving inductive energy, comprising:

a memory for storing computer readable data relevant to receiving the inductive energy;

a processor unit for processing the computer readable data;

a coil configured for receiving the inductive energy and for receiving an inductive data communication;

a power supply operatively coupled to the processor unit and the coil; the power supply configured to output a direct current ~~responsive to~~ powered by the inductive energy and relevant to the inductive data communication;

a battery charger for supplying energy to a battery pack; and

a connector for operatively receiving a portion of the battery pack for logical communications with the processor unit, ~~the connector in communication with the battery pack via at least a first wire and a second wire, the first wire for data transfer and the second wire for transmitting a clock signal.~~

9. (Original) The apparatus in accordance with claim 8, in which the processor unit is configured to provide authentication data for inductive energy reception.

10. (Original) The apparatus in accordance with claim 8, further comprising a communications device operatively coupled to the coil.

11. (Original) The apparatus in accordance with claim 10, in which the communications device is configured to receive the computer readable data and transmit the data to the coil.

12. (Original) The apparatus in accordance with claim 8, in which the processor unit is configured to receive a plurality of power parameters from the battery pack; store the power parameters in the memory; and transmit the power requirements to a power source which provides the inductive energy.

13. (Original) The apparatus in accordance with claim 8, in which the processor unit is configured to provide a digital certificate to a power source.

14. (Original) The apparatus in accordance with claim 8, in which the processor unit is configured to draw electrical power from the battery pack; and responsive to receiving an indication of inductive energy at the coil; the processor unit configured to draw electrical power via the coil.

15. (Original) The apparatus in accordance with claim 9, further comprising an antenna and a communications device configured to receive the computer readable data and configured to transmit the data to the antenna for wireless data communications to a power source.

16. (Currently amended) A computer implemented method of providing inductive energy to a battery charger assembly, the method comprising the steps of:

at the battery charger assembly, a coil wirelessly receiving a polling message from a source, the polling message ~~including energizing and de-energizing of a transmission element in the source at a predetermined elapsed time value~~ including a data structure having a header and a payload;

transmitting a request for power to the source responsive to receiving the polling message; and

receiving inductive power via the coil from the source responsive to the request.

17. (Original) The method in accordance with claim 16, in which the step of transmitting includes a step of transmitting a plurality of power parameters to the source.

18. (Original) The method in accordance with claim 16, in which the step of transmitting includes a step of transmitting authenticating data to the source.

19. (Original) The method in accordance with claim 16, further including a step of converting the inductive power to a direct current responsive to the step of receiving.

20. (Original) The method in accordance with claim 16, further including a step of receiving power parameters from a battery pack, and storing the power parameters in a computer readable memory.

21. (Original) The method in accordance with claim 20, in which the step of transmitting includes a step of transmitting the power parameters to the source.

22-27. (Canceled)

28. (New) The apparatus of claim 8 wherein the inductive data communication includes a polling message including a header and a payload.

29. (New) The apparatus of claim 28 wherein the payload contains specific data relevant to power consumption.

30. (New) The apparatus of claim 28 wherein the payload includes at least one of an operating parameter and authentication information.

31. (New) The apparatus of claim 30 wherein the operating parameter corresponds to a charging voltage or a maximum expected power consumption.